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☐ 1. Document ID: DE 3301120 A, CS 8300182 A, DD 209430 A, ES 8402549 A, GB 2113199 A, GB 2113199 B, HU 28758 T, IT 1160174 B, RO 86780 A

L3: Entry 1 of 1

File: DWPI

Jul 28, 1983

DERWENT-ACC-NO: 1983-724244

DERWENT-WEEK: 198331

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TITLE: Detoxicating waste water sludge esp. from leather industry - comprises acidifying with sulphuric acid and decomposing heavy metal complex to salt derivs.

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PRIORITY-DATA: 1982HU-0000100 (January 14, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 3301120 A</u>	July 28, 1983		009	
<u>CS 8300182 A</u>	February 13, 1986		000	
<u>DD 209430 A</u>	May 9, 1984		000	
<u>ES 8402549 A</u>	May 1, 1984		000	
<u>GB 2113199 A</u>	August 3, 1983		000	
<u>GB 2113199 B</u>	July 10, 1985		000	
<u>HU 28758 T</u>	December 28, 1983		000	
<u>IT 1160174 B</u>	March 4, 1987		000	
<u>RO 86780 A</u>	May 30, 1985		000	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
GB 2113199A	January 14, 1983	1983GB-0000987	

INT-CL (IPC): C02F 1/62; C02F 9/00; C02F 11/00; C05F 7/00

ABSTRACTED-PUB-NO: DE 3301120A

BASIC-ABSTRACT:

In a process for detoxicating industrial- esp. leather industry waste water sludges contg. toxic heavy metal complexes and organic materials, the waste water sludges are first homogenised with water to form a suspension contg. max. 100(20-40) kg.cu.m. solids. The suspension obtd. is mixed with H<sub>2</sub>SO<sub>4</sub>, or with an inorganic acid mixt. contg. at least 30% H<sub>2</sub>SO<sub>4</sub>, so that the acid concn. of the suspension does not exceed 10wt.% and suspension pH remains below 1 after completing acid addn. The acidified mixt. is stirred at 20-100 deg.C until the heavy metal complexes are decomposed. The generated heavy metal salt-contg. acid soln. is sepd. from the sludge and advantageously neutralised with Ca(OH)<sub>2</sub>. The metal salts are pptd. at pH 8-10 and the sepd. sludge is freed by washing from heavy metal ions and acids.

The use of the metal ion-freed organic material-contg. sludge for soil improvement in agriculture is claimed. The heavy metal salt-contg. pptes. can be further processed to useful metal cpds. In addn., waste water sludge storage and transport problems are overcome.

ABSTRACTED-PUB-NO:

GB 2113199B

EQUIVALENT-ABSTRACTS:

A process for the detoxication of waste slurries originating in the leather or skin industry and containing one or more heavy metal salt complexes, comprising homogenising a slurry of waste with water to give a suspension of the solid material having a maximum concentration of 100 kg/cu.m., adding sulphuric acid and/or a mineral acid mixture containing at least 30% by weight sulphuric acid, stirring vigorously, separating the acid solution containing the heavy metal salt or salts from the slurry, and washing and neutralising the slurry so that it is substantially free of acid and metal-ions.

TITLE-TERMS: DETOXICANT WASTE WATER SLUDGE LEATHER INDUSTRIAL COMPRISE ACIDIC SULPHURIC ACID DECOMPOSE HEAVY METAL COMPLEX SALT DERIVATIVE

DERWENT-CLASS: Q04 D15 D18

CPI-CODES: C04-B04L; C04-D02; C12-N08; C12-N10; D04-B05; D04-B06;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*  
Fragmentation Code  
M423 M720 M903 N161 N164 P113 P126 V600 V642 V793  
V797

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1502S ; 1714S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1983-072212

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw. De
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